IAP3 Rec'd PCT/PTO 23 DEC 2005

PTO-1390 (Rev. 07-2005)
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ATTORNEY'S DOCKET NUMBER TRANSMITTAL LETTER TO THE UNITED STATES 14836-53545 DESIGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPRICATION **CONCERNING A SUBMISSION UNDER 35 U.S.C. 371** INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/EP2004/006916 25 June 2004 25 June 2003 TITLE OF INVENTION OPTIMIZED DETERMINATION OF VOLTAGE CHANGES USING A VOLTAGE-SENSITIVE DYE APPLICANT(S) FOR DO/EO/US Bernd Kuhn, Winfried Denk, Gern Hübener, and Peter Fromherz Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. I√I The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. 🗹 Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). An English language translation of the annexes of the International Preliminary Examination Report under PCT 10. Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. 🗹 A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (if 1/2007), 602 3 0 INTERNATIONAL APPLICATION NO. Unassigned PCT/EP2004/006916					ATTORNEY'S DOCKET NUMBER 14836-53545			
20. Other items or information: PCT Request Form of June 25, 2004; Credit Card Authorization in the Amount of \$500.00; Authorization to charge and fee deficiencies or credit any overpayments to Deposit Account; Return Postcard								
The following	fees have be	en submitted			CALCULATIONS	PTO USE ONLY		
	onal fee (37 C			\$300	\$			
22. 🗸 Examination	n fee (37 CFF	R 1 492(c))			300.00			
If the written opinion pr by IPEA/US in All other situations	epared by ISA	\$ 200.00						
23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority\$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB\$400 All other situations \$500					\$ 500.00			
TOTA	TOTAL OF 21, 22 and 23 =				\$1,000.00			
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number)								
96 - 100 = 0	/50 =			× \$250	\$ 0.00	l		
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					\$			
CLAIMS	NUMBE	R FILED	NUMBER EXTRA	RATE	\$			
Total claims	11	- 20 =	0	× \$ 50	\$			
Independent claims	2	- 3 =	0	× \$200	\$			
MULTIPLE DEPENDE	NT CLAIM(S)	(if applicable)		+ \$360	\$			
				CALCULATIONS =	\$ 1000			
✓ Applicant claims s	mall entity sta	tus. See 37 CFF	R 1.27. Fees above are reduc	ced by 1/2.	\$500.00			
				SUBTOTAL =	\$ \$500.00			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$			
TOTAL NATIONAL FEE =					\$ 500.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +					\$			
		\$ 500.00						
					Amount to be refunded:	\$		
					Amount to be charged	\$		

4.2

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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.								
SEND A	ALL CORRESPONDENCE TO: Morris, Manning & Martin, LLP 1600 Atlanta Financial Center 3343 Peachtree Road NE Atlanta, Georgia 30326-1044	Tir NA 45	GNATURE m Tingkang Xia, Esq. ME 5,242 GISTRATION NUMBER					

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Bernd Kuhn et al.

IAP17 Rec'd PCT/PTO 23 DEC 2005

Docket:

14836-53545

Title:

Optimized Determination of Voltage Change Using A Voltage-Sensitive Dye

CERTIFICATE UNDER 37 CFR 1.10

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Transmittal Letter to the United State Designated/Elected Office (DO/EO/US)

Concerning a Filing Under 35 U.S.C. 371 (3 pages)

Copy of International Publication No. WO 2005/001448 A1, in the English language, with ISR (109 pages)

Copy of PCT Request PCT/RO/101 (5 pages)

Preliminary Amendment (5 pages)

Application Data Sheet (4 pages)

Credit Card Authorization Form-2038 in the Amount of \$500.00 (1 page)

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Please send all Correspondence to:

Tim Tingkang Xia, Esq.
MORRIS, MANNING & MARTIN, LLP

1600 Atlanta Financial Center 3343 Peachtree Road NE

Atlanta, Georgia 30326 404-233-700 (Main)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Bernd Kuhn, et al.

Express Mail Label No.

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Serial No.:

Unassigned

Group Art Unit:

Unassigned

Filed:

December 23, 2005

Docket No.:

14836-53545

Title:

OPTIMIZED DETERMINATION OF VOLTAGE CHANGES USING A

VOLTAGE-SENSITIVE DYE

CERTIFICATE UNDER 37 CFR 1.10

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Respectfully submitted,

MORRIS, MANNING & MARTIN, LLP

December 9, 2005

Tim Tingkang Xia, Esq.

Reg. No. 45,242

Attorney for Assignee on the Record

TTX

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